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THE VISIBLE SPECTRUM OF  $\gamma$  ARGUS.

I have recently undertaken to determine as accurately as possible the positions of the bright lines in the spectra of some of the WOLF-RAYET stars. Fifty stars of this type are now known, of which  $\gamma$  Argus, of the 3d magnitude, is the only bright one. When this star is on the meridian of Mt. Hamilton its altitude is less than  $6^\circ$ , and can be observed with the great telescope only a few minutes each evening. Nevertheless, I have secured a few observations of its visible spectrum, which, while not as accurate as they would be if the star were advantageously situated, may be of interest. The following wave lengths are preliminary only, since I have not at present the accurate wave lengths of the comparison lines employed. The continuous spectrum is visible from about B to K, being particularly strong in the blue and violet:

BRIGHT LINES IN THE VISIBLE SPECTRUM OF  $\gamma$  ARGUS.

Line.	1893, Feb. 15	Feb. 17	Feb. 18	Feb. 19	Feb. 20	Feb. 22	Feb. 23	Feb. 27	Mar. 27	Mean.
C D <sub>3</sub>	670				6727		6726			6726
	6563				6564		6566			6564
	5876	5874	5873					5875	5875	5875
	5814	5814	5813					5809	5813	5813
	5695	5695	5694					5693	5696	5695
								5594		5594
								5412		5412
				4691	4690	4692		4689	4689	4690
				4652	4651	4651		4651	4650	4651
							4440	4442	4442	4441

$\lambda 6726$  and  $\lambda 5594$  are rather broad, faint and poorly defined bands or lines.  $\lambda 5412$  is extremely difficult, and is the same line that is very bright in some of the WOLF-RAYET stars at about  $\lambda 5415$ .  $\lambda 4651$  is broad, much brighter than its companion at  $\lambda 4690$ , and is strongly suspected to be double, with components near wave lengths 4644 and 4659. The relative intensities of the lines will be shown later in an intensity curve.

A photograph of the spectrum, just obtained, though very much over-exposed, shows many additional bright lines, and also that the  $H \gamma$ ,  $H \delta$  and  $H$  lines are dark. The C line is very bright.

W. W. C.

1893, March 29.